

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-090914

(43)Date of publication of application : 28.03.2003

(51)Int.Cl.

G02B 5/30  
B29C 41/24  
C08J 5/18  
C08K 5/00  
C08L101/02  
G02F 1/13363  
// B29K 69:00  
B29L 7:00

(21)Application number : 2001-282806

(71)Applicant : TEIJIN LTD

(22)Date of filing : 18.09.2001

(72)Inventor : IKEDA YOSHINORI  
UCHIYAMA AKIHIKO

## (54) PHASE CONTRAST FILM AND METHOD FOR MANUFACTURING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a phase contrast film in which the phase contrast decreases with the shorter wavelength for the measurement in one film.

SOLUTION: The phase contrast film is a single layer film consisting of a polymer aligned film containing a synthetic polymer having a cyclic structure in the direction almost perpendicular to the main chain and a non-liquid crystal compound having optical anisotropy. The phase contrast of the above phase contrast film satisfies formula (1):  $R(\lambda_1)/R(\lambda_2) < 1$  at the wavelength  $\lambda$  and the haze of the film is  $\leq 3\%$ . In the formula,  $R(\lambda_1)$  and  $R(\lambda_2)$  represent the phase differences in the plane of the polymer aligned film at wavelengths  $\lambda_1$  nm and  $\lambda_2$  nm ( $400 < \lambda_1$  and  $\lambda_2 < 700$  and  $\lambda_1 < \lambda_2$ ), respectively.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]